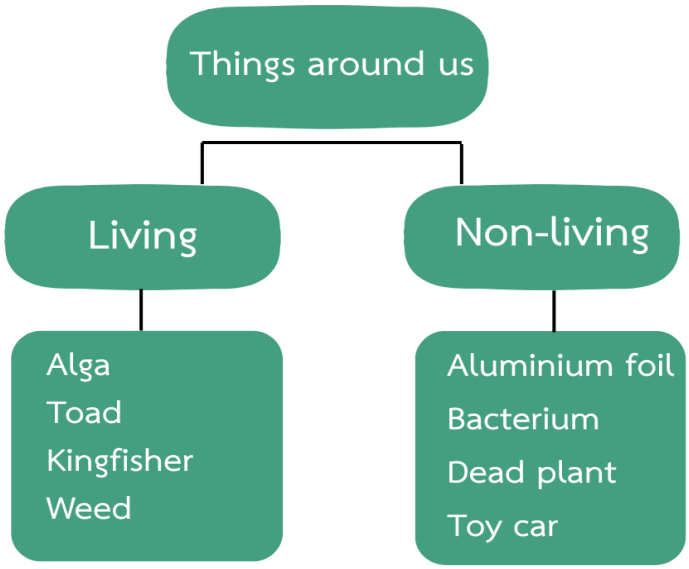
Instructions :

1. Each question carries a different score, as indicated at the end of the question.
2. Students must select only the one best answer for each question.

1. Study the classification chart below. (1.25 marks)



Which of the following is **incorrectly** grouped

1. Alga
2. Weed
3. Bacterium
4. Aluminium foil

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2. Some plants have been classified in the following groups.

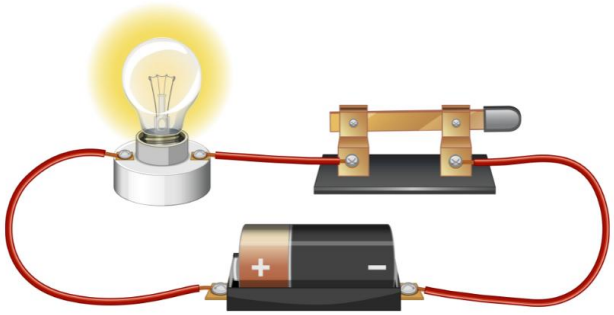
Group X	Group Y
	
A	D
	
B	E
	
C	F

Which plant above is wrongly classified? (1.25 marks)

1. A
2. C
3. D
4. F

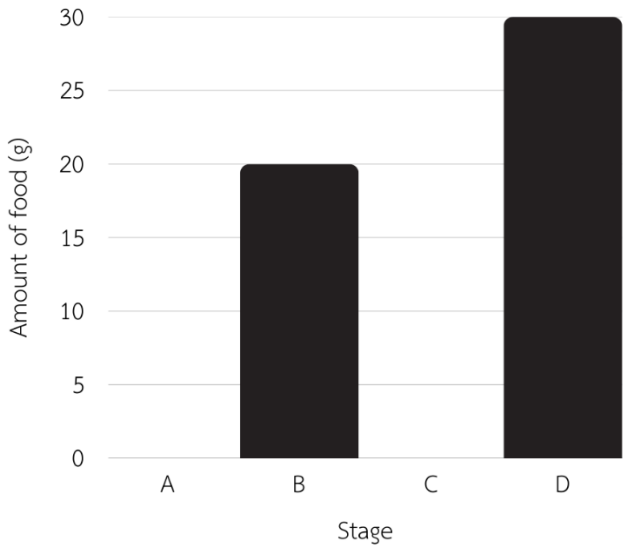
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3. What is the initial form of energy required for the circuit shown below to work? (1.25 marks)



1. heat energy
2. chemical energy
3. light energy
4. electrical energy

4. The graph below shows the amount of food eaten by an insect at different stages of its life cycle. (1.25 marks)



Which of the following best represents stage C?

1. Egg
2. Nymph
3. Pupa
4. Adult

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5. Which of the following organisms can be found in a mangrove swamp habitat?

(1.25 marks)

A.	B.	C.
 mangrove tree	 sugarcane tree	 Mudskipper

1. A only
2. B only
3. A and C only
4. B and C only

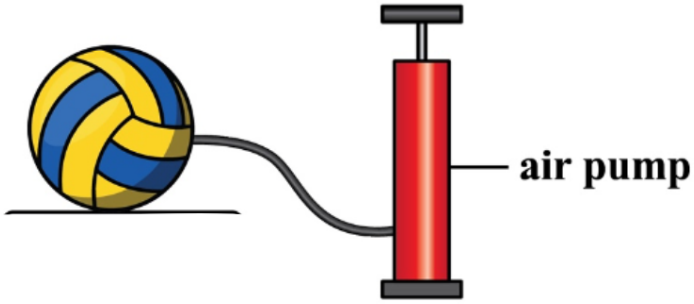
6. Which of the following plants are correctly matched to the way they reproduce?

(1.25 marks)

	Through spores	Through roots	Through underground stems	Through seeds
1.	Moss	Potato	Onion	Guava
2.	Bird's nest fern	Tapioca	Ginger	Orange
3.	Dragon scale fern	Sweet potato	Turnip	Tomato
4.	Cucumber	Garlic	Water chestnut	Apple

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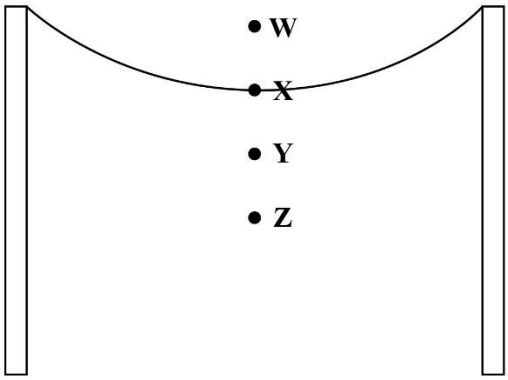
7. Sophia pumped more air into a fully inflated basketball as shown below.



Which of the following correctly describes what happens to the mass and the volume of the air in the ball? (1.25 marks)

	Mass of the air	Volume of the air
1.	Increased	Increased
2.	Decreased	Increased
3.	Increased	Remained the same
4.	Remained the same	Remained the same

8. The diagram below shows an electric cable hanging loosely at point X on a sunny day.



Which position, W, X, Y or Z, would the electric cable be at during the night? (1.25 marks)

1. W
2. X
3. Y
4. Z

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9. From the classification of sound sources into 2 groups as follows

Group A	Group B
The sound of thunder	The sound of music
The sound of the wind	The sound of car horn
The sound of ocean waves	The sound of fireworks
The sound of birds singing	The sound of machine running

Which criteria should be used for classification to be most appropriate? (1.25 marks)

	Group A	Group B
1.	Non-healthy sounds	Hazardous noise
2.	Sound from natural sound sources	Sound from man made sound sources
3.	Sound produced by air vibrations	Sound produced by compression of air
4.	High frequency sounds	Low frequency noise

10. Which of the following is a light source? (1.25 marks)

A. Sun
B. Star
C. Firefly
D. Mirror
E. Street light

1. B and C only
2. D and E only
3. A, C and D only
4. A, B, C and E only

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11. Which of the following does not have mass? (1.25 marks)

1. Feathers



2. Lightning



3. Snow



4. Air

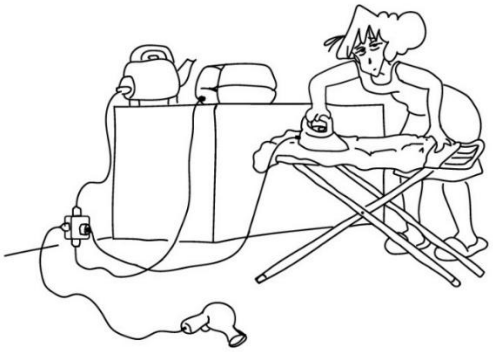


12. You have two identical rubber balls. The first ball rolls on a smooth wooden floor, while the second ball rolls on a long-pile carpet. If you push both balls simultaneously with the same force, which of the following statements best compares the motion of the two balls? (1.25 marks)

1. The ball on the carpet will roll farther and stop slower.
2. The ball on the wooden floor will roll farther and stop slower.
3. Both balls will roll the same distance, but the ball on the wooden floor will stop faster.
4. Both balls will roll the same distance and stop at the same time.

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13. Mrs. Lin is ironing some clothes as shown below.



Which of the following is a fire hazard in the house? (1.25 marks)

A. The kettle may fall off the table.

B. There are too many plugs in the socket.

C. Mrs. Lin is not sitting down while ironing the clothes.

1. B only
2. C only
3. B and C only
4. A, B and C

14. Consider two areas: Area A is a limestone mountain with sparse vegetation, while Area B is a tropical rainforest with dense trees and abundant decaying plant and animal matter.

Which of the following statements best compares the soil formation and characteristics in Area A and Area B? (1.25 marks)

1. Area A will have more fertile soil than Area B due to minerals from limestone.

2. Area B will have soil with higher organic matter content and faster soil formation than Area A.

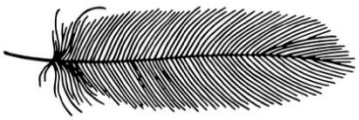
3. The weathering of rocks in Area A will occur faster than in Area B due to the lack of vegetation cover.

4. The soil in both areas will be similar in characteristics because they are affected by the same climate conditions.

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15. The important characteristics of feathers that help to swim well are the strong structure and good waterproofing. Feathers of birds that can swim have down feathers that help insulate and keep air close to the body to protect from the cold. And wing feathers (contour feathers) that are arranged in an orderly manner like scales, helping to waterproof and prevent water from seeping into the body.

Dodo carried out an experiment on feathers. He dipped feathers of four different birds in water and took them out. He then recorded the time taken for the feathers to dry. (2.5 marks)

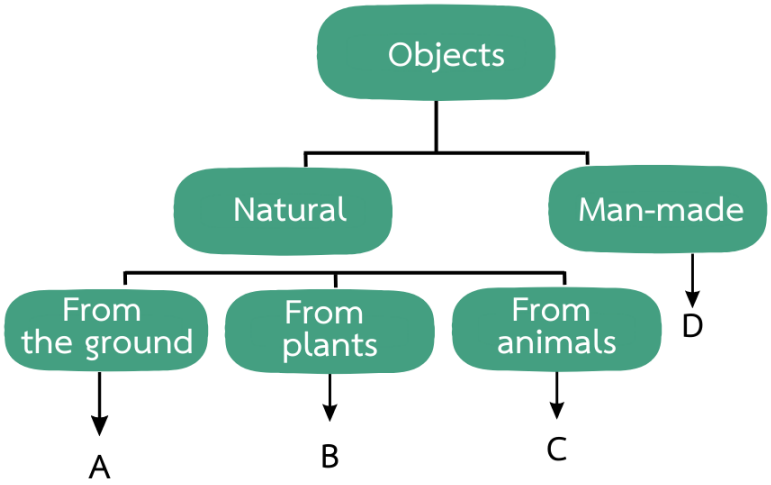
Feather	Time taken for feathers to dry (s)
A. 	30
B. 	85
C. 	120
D. 	25

From the above experiments. Which feathers above most likely belong to birds can swim in water?

1. A and B only
2. B and C only
3. A and D only
4. A, B and D only

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16. Jayden classified some objects as shown in the classification chart below.



Which of the following are the correct examples of objects A, B, C and D? (2.5 marks)

	A	B	C	D
1.	Metal	Rubber	Silk	Nylon
2.	Metal	Silk	Rubber	Nylon
3.	Nylon	Rubber	Silk	Metal
4.	Rubber	Silk	Nylon	Metal

17. Four identical glasses A, B, C and D contained the same volume of water of different temperatures as shown in the table below. The glasses were placed on a table in a room.

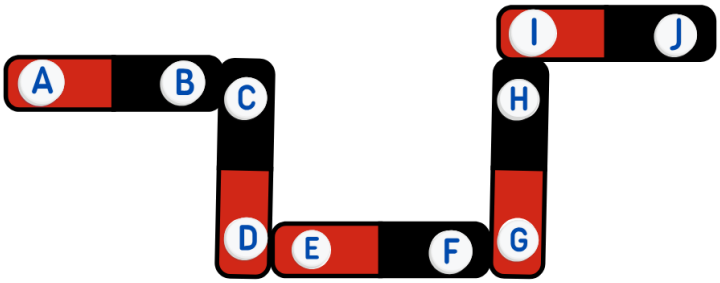
Glass	A	B	C	D
Temperature of water (°C)	10	20	15	30

Given that the room temperature is 28 °C, on which glasses would water droplets be formed on the outer surface of the glass after some time? (2.5 marks)

1. A and C only
2. B and D only
3. A, B and C only
4. A, B, C and D

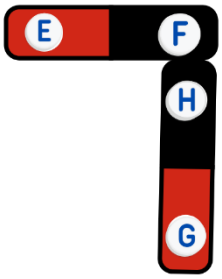
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18. The diagram below shows how five magnets can be arrange such that they stick to one another. D is the North pole.



Which of the following combinations is possible? (2.5 marks)

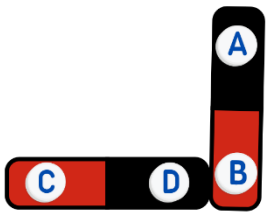
1.



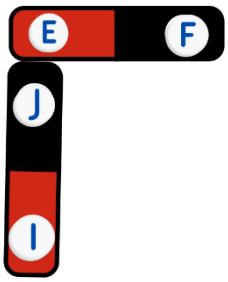
2.



3.

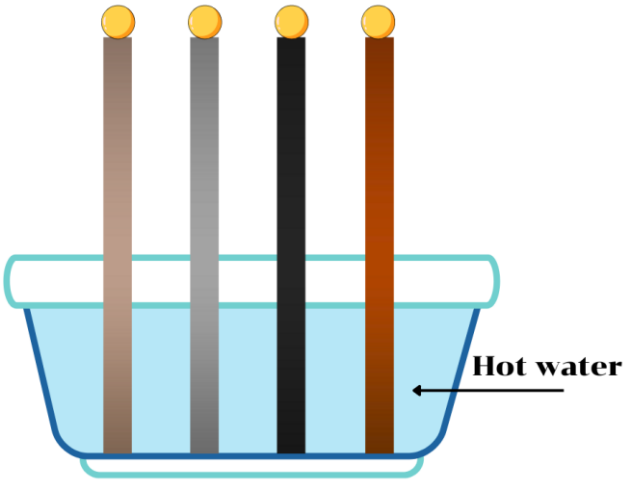


4.



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19. Four rods of the same size and material were painted with different colours. The rods with wax on top were placed at the same time into a container of hot water.

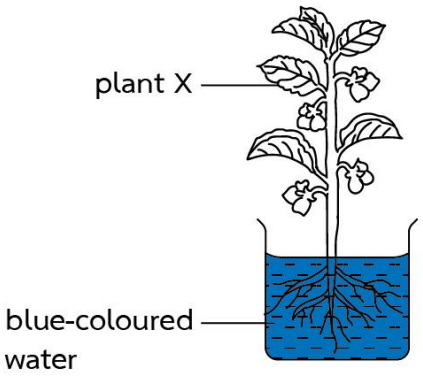


What should be observed or measured to know if colours can affect how well materials conduct heat? (2.5 marks)

1. The change in the length of the rods.
2. The change in the temperature of the water.
3. The order in which the wax on the rods melts.
4. The time it takes for all the wax on the rods to melt.

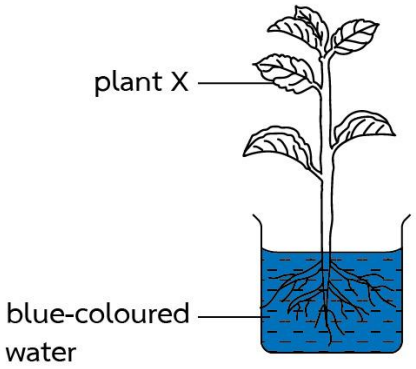
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20. Lily wants to investigate if water absorbed by the roots of a plant is transported to the flower. She puts Plant X into a beaker of blue-coloured water. A few hours later, she observes that the flowers turn from white to blue.

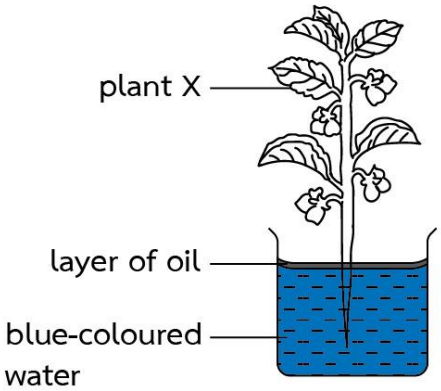


She concludes that water absorbed by roots is transported to the flower. Which set-up can also be used for experiment? (2.5 marks)

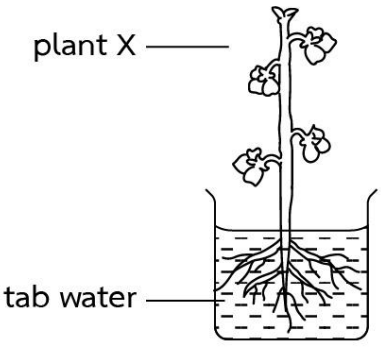
1.



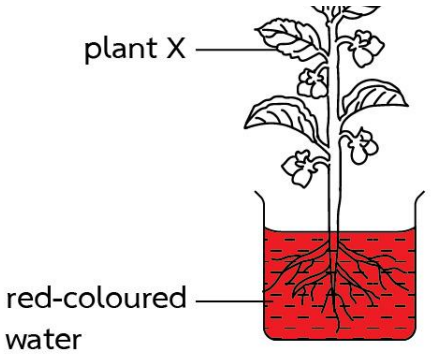
2.



3.

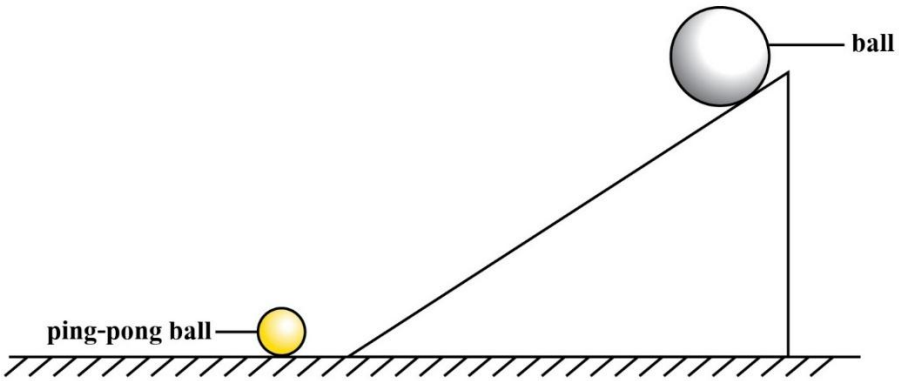


4.

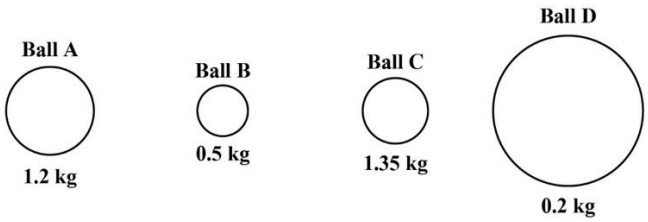


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21. James carried out on experiment by rolling each of the four balls, A, B, C and D, down the same inclined plane to hit a ping-pong ball as shown below.



The mass of each of the balls is shown below.

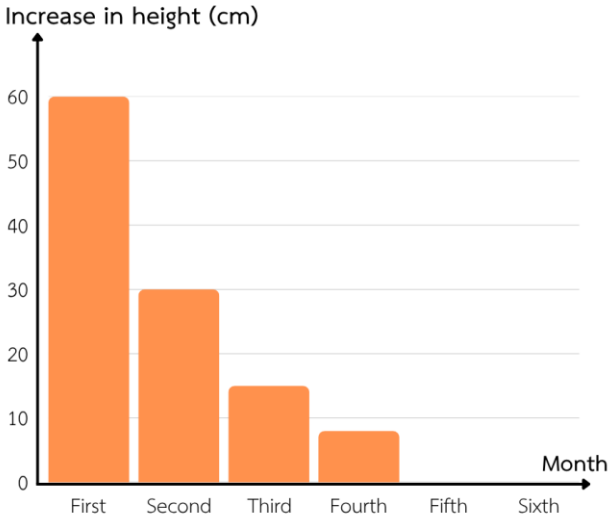


Which of the above balls will cause the ping-pong ball to travel the furthest? (2.5 marks)

1. A
2. B
3. C
4. D

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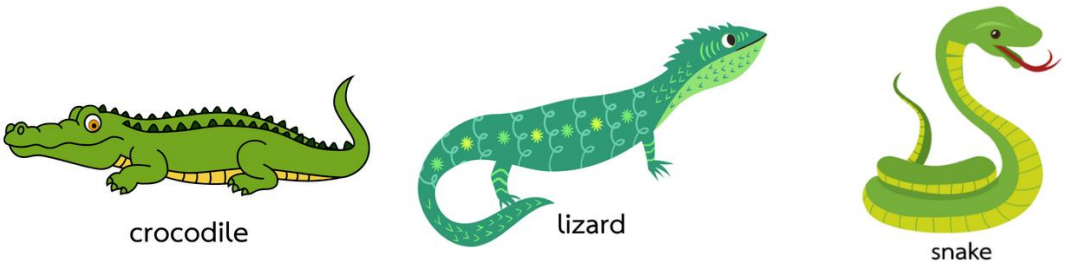
22. The graph below shows the increase in height of a plant over six months.



Which of the following statements about the growth of the plants is correct? (2.5 marks)

1. The plant decreased in height.
2. The plant died in the fifth month.
3. The plant grew the most in the first month.
4. The plant grew the most in the fifth month.

23. Study the animals in the diagram below. (2.5 marks)



Which of the following are common characteristics of all the animals shown above?

A. Has four legs
B. Has dry scales
C. Breathes with lungs
D. Does not have a constant body temperature

1. B and C only
2. C and D only
3. A, B and D only
4. B, C and D only

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24. Which of the following plant parts are stems that grow underground? (2.5 marks)

A. Potato



B. Water chestnut



C. Ginger



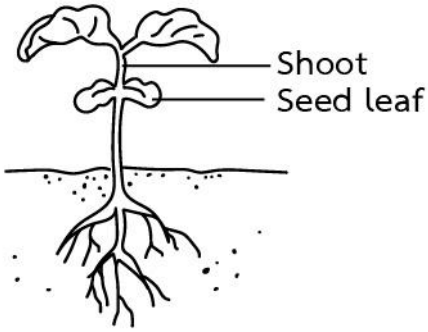
D. Sweet potato



1. A and B only
2. A and C only
3. A, B and C only
4. A, B, C and D

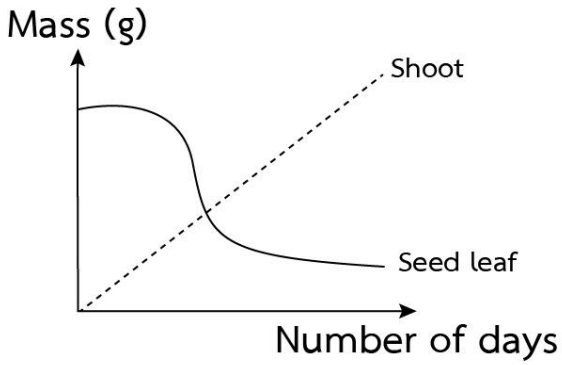
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25. Billy carried out an experiment on germination of seeds. He observed and recorded the mass of the seed leaf and the shoot of the seedling over several days.

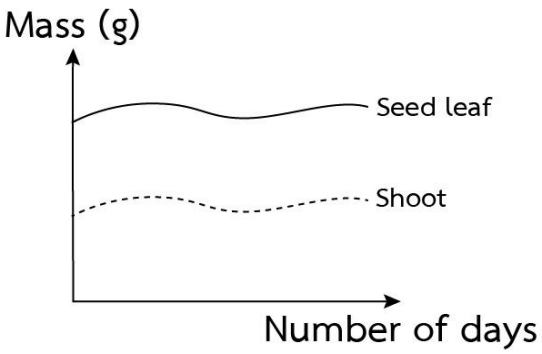


Which of the following graphs shows the changes in the mass of the seed leaf (cotyledons) and the shoot during the experiment? (2.5 marks)

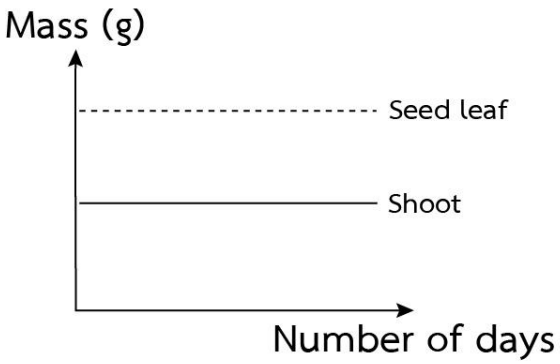
1.



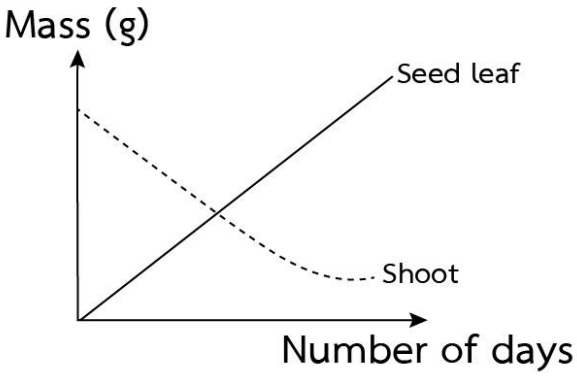
2.



3.



4.



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26. A car manufacturer wonts to use the best material to make, windscreen of a car.



The table below shows some information of four available materials.

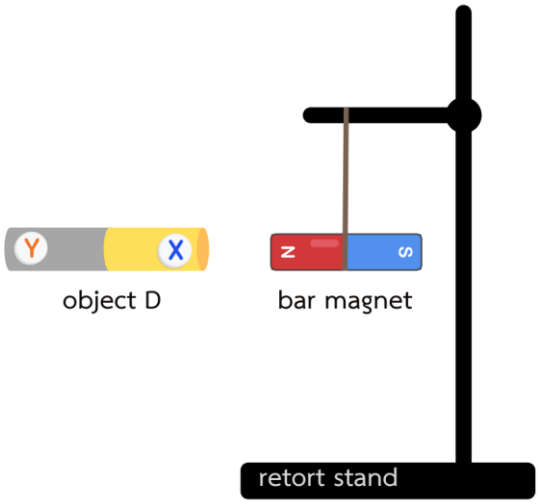
material	Properties
A	Flexible, waterproof, transparent
B	Strong, waterproof, transparent
C	Stiff, floats on water, durable
D	Strong, sinks in water, flexible

Which material, A, B, C or D, is most suitable for making the windscreen? (2.5 marks)

1. A
2. B
3. C
4. D

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27. Andy brings end X of object D close to a suspended magnet as shown in the diagram below. He records his observations. Then he flips over end Y of object D to be close to the magnet and repeats the experiment. He repeats the procedure for two more objects, E and F.



The table below shows the results of the experiment.

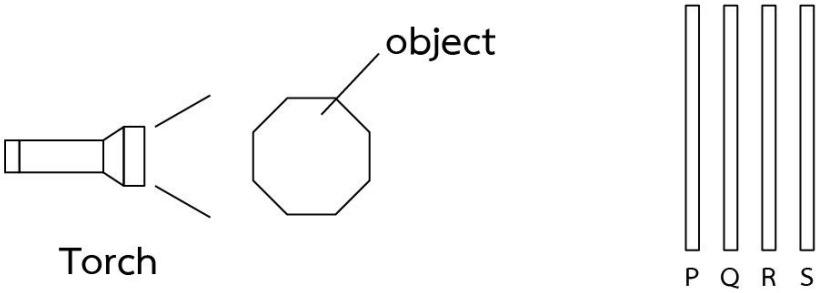
Object	End	Attracted to the magnet	Repelled by the magnet
D	X	Yes	No
	Y	Yes	No
E	X	Yes	No
	Y	No	Yes
F	X	No	No
	Y	No	No

Which of the following statements is correct? (5 marks)

1. Object D is made of steel.
2. Objects D and E are magnets.
3. End Y of object E is the North pole.
4. Object F is made of magnetic materials.

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28. Sophia carried out the following experiment in dark room. She arranged a torch, an object and four sheets of materials P, Q, R and S as shown below.



When the torch was switched on, a dork shadow of the object was cast on sheet R only. Consider the following statement.

A. Sheet S is translucent.

B. Sheet R does not allow light to pass through.

C. Sheets P and Q allow most light to pass through.

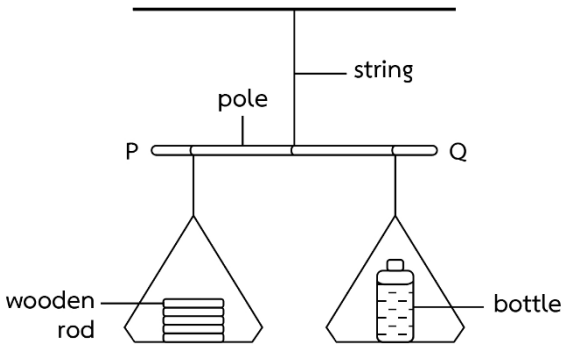
D. Sheets P, Q and S allow some light to pass through while sheet R allows most light to pass through.

Which of the following conclusions could be made from the experiment? (5 marks)

1. D only
2. B and C only
3. C and D only
4. A, B and D only

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29. The diagram below shows a pole hanging from a support. End P of the pole had five similar wooden rods on the pan while end Q of the pole had a bottle filled with water on the pan.



If the pole was balanced, which of the following statements are correct? (5 marks)

A. If the water inside the bottle was poured away, end P would tilt upwards.

B. If one of the wooden rods was removed, end Q would tilt downwards.

C. The bottle filled with water had the same mass as the five wooden rods.

D. If another identical wooden rod was added to both end P and end Q, the pole would remain balanced.

1. A and D only
2. B and C only
3. B, C and D only
4. A, B, C and D

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30. Wind can exert a force on objects. In the diagram below, the wind chime moves when the wind blows.



Which of the following statements explains the force exerted by the wind on the wind chime? (5 marks)

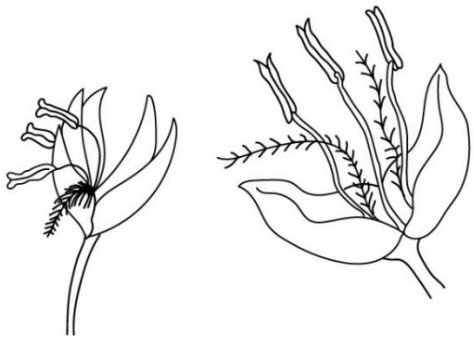
A. The force exerted on the wind chime can be seen.

B. The force exerted by the wind causes the wind chime to move.

C. The force exerted by the wind on the wind chime produces sound.

1. A only
2. A and B only
3. B and C only
4. A, B and C

31. Which of the following best explains why the flowers are most likely to be wind-pollinated? (1.25 marks)



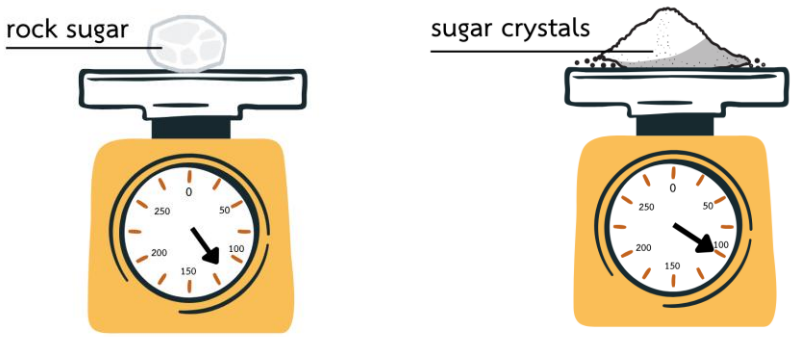
1. The petals are too small for insects to land on.
2. The flowers do not have any scent to attract insects.
3. The stigmas and the anthers grow outside the ring of the petals.
4. All of the above are correct.

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32. Why is it that on a clear night, we see many stars, but on another night, at the same location and time, we might see different constellations? (1.25 marks)

1. Because the Moon blocks different constellations each night
2. Because Earth revolves around the Sun, giving us a different viewing angle each night
3. Because Earth rotates on its axis and also moves in its orbit, slightly changing our view of the sky each day
4. Because stars rapidly move in and out of the galaxy

33. A lump of rock sugar and some sugar crystals were placed on two similar weighing scales as shown in the diagram below.



Based on the above diagram, which of the following is/are true? (2.5 marks)

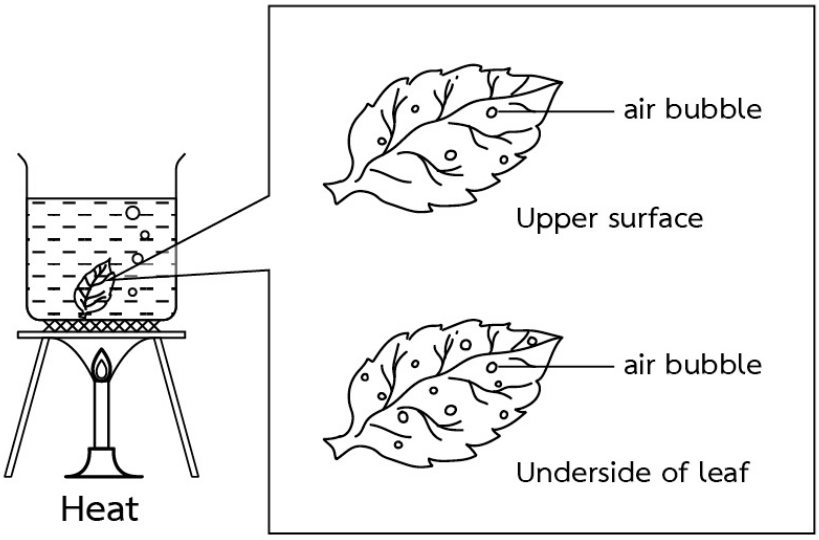
A. Both the lump of rock sugar and the sugar crystals have mass.
B. The sugar crystals have a larger mass than the lump of rock sugar.
C. The lump of rock sugar has a larger volume than the sugar crystals.
D. The lump of rock sugar has a definite volume but the sugar crystals do not.

1. A only
2. A and C only
3. B and D only
4. A, C and D only

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34. Khairul carried out an experiment on the leaves of plats. He immersed a leaf into a beaker of boiling water as shown in the diagram below.

Enlarged diagram of the leaf



After a while, observed that bubbles of appeared and started to escape from both surfaces of the leaf. He also noticed more air bubbles appearing on the underside of the leaf compared to the upper surface. Based on his observation, what could you conclude from this experiment? (2.5 marks)

1. There was more air trapped on the upper surface of the leaf than on the underside of the leaf.

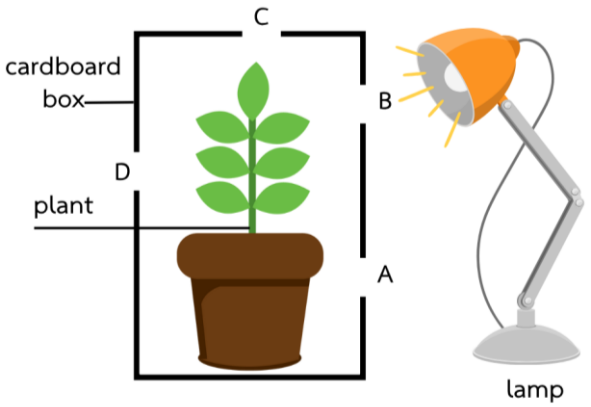
2. More oxygen was produced on the upper surface of the leaf than on the underside of the leaf.

3. More carbon dioxide could enter the leaf from the underside than the upper surface of the leaf.

4. There were more stomata on the underside of the leaf compared to the upper surface.

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35. A potted plant was placed in a cardboard box with four holes A, B, C and D. The box was left in a room with only one light source as shown in the diagram below.



Based on the diagram, which hole, A, B, C or D, would the plant most likely grow towards after a few days? (2.5 marks)

1. A
2. B
3. C
4. D

36. Three containers, A, B and C, were filled with 60 cm^3 sand, 60 cm^3 water and 60 cm^3 air respectively. David wanted to use another 50 cm^3 container X to store one of the matter above.

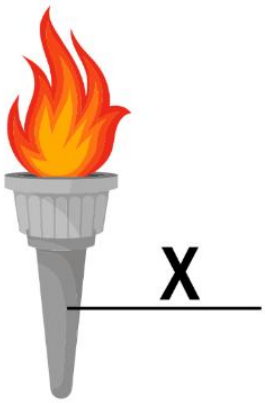
			
60 cm^3 sand Container A	**60 cm^3 water Container B**	**60 cm^3 air Container C**	**50 cm^3 Container D**

Which container contains matter that could be in container X? (2.5 marks)

1. Container A only
2. Container B and Container C
3. Container C only
4. Container A and Container C

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37. The diagram below shows an **Olympic torch** that has been specially designed to allow thousands of torch bearers to carry and pass along the way. The exterior of the torch is made of material X to enable the torch bearers to hold it for a long time. Which of the following are characteristics of material X? (5 marks)



A. Material X is light.
B. Material X is heavy.
C. Material X is a poor conductor of heat
D. Material X is a good conductor of heat

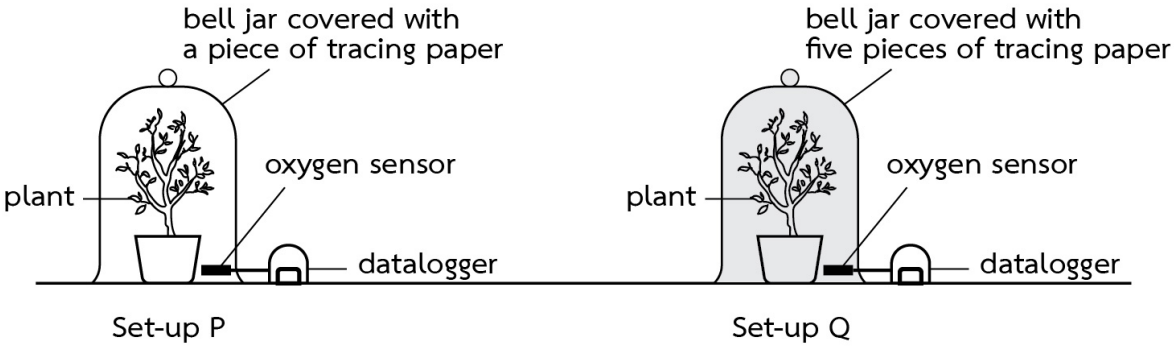
1. A and B only
2. A and C only
3. B and D only
4. C and D only

38. A student conducts an experiment to find the relationship between temperature and the rate of a chemical reaction. The results show that as temperature increases, the reaction rate also increases. However, some data points clearly deviate from the trend. What should the student do? (5 marks)

1. Remove the deviating data points from the analysis to make the graph look smoother.
2. Conclude based on the main trend and ignore the deviating data.
3. Change the hypothesis to align with the deviating data.
4. Check the experimental procedure and equipment used for those deviating data points, and repeat the experiment for the suspicious points.

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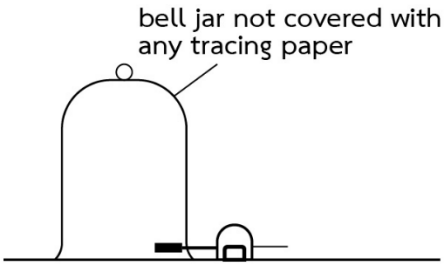
39. Tessa carried out experiment as shown below to investigate how the amount of light affects the of photosynthesis of a plant. Both set-ups P and Q were placed in a sunny place.



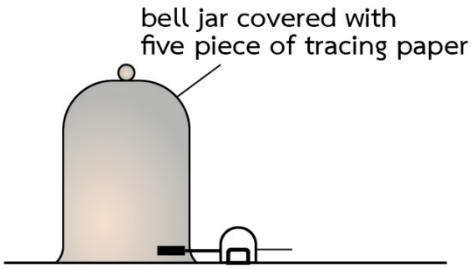
Set-up P Set-up Q

Tessa needed to include a control for her experiment in order to make a useful deduction. Which one of the following could be used as a control set-up for her experiment? (5 marks)

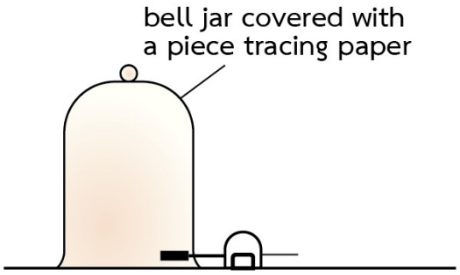
1.



2.



3.

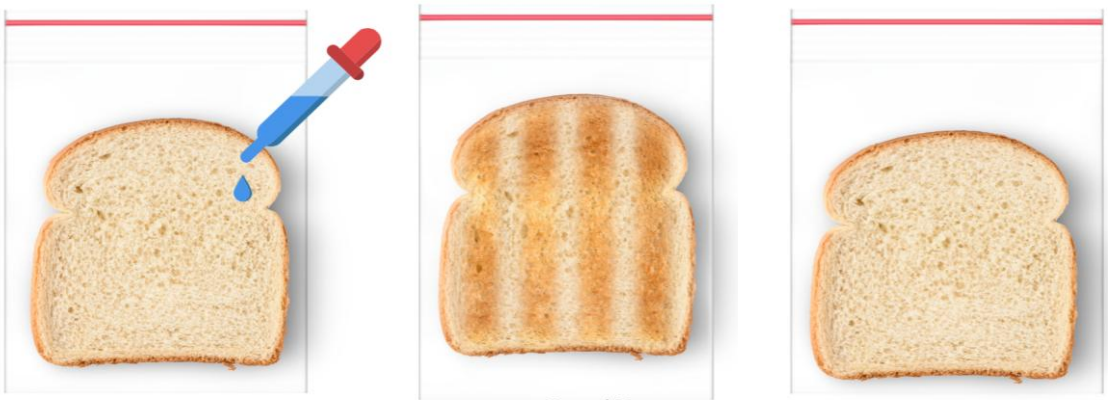


4.



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40. Jun put three pieces of bread into three separate sealed plastic bags.



Bread A (with water added) | Bread B (toasted) | Bread C (without water added)

Which of the following is true about the presence of air, water and food in each set-up for the mould to grow? (5 marks)

1.

	Bread A	Bread B	Bread C
Air	✗	✓	✗
Water	✓	✗	✗
Food	✓	✗	✓

2.

	Bread A	Bread B	Bread C
Air	✓	✗	✓
Water	✓	✗	✓
Food	✓	✗	✓

3.

	Bread A	Bread B	Bread C
Air	✓	✓	✓
Water	✓	✗	✗
Food	✓	✓	✓

4.

	Bread A	Bread B	Bread C
Air	✓	✓	✓
Water	✓	✗	✓
Food	✓	✓	✓

---------- End of Questions ----------

Please check your answers before submitting the answer sheet.

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คำตอบวิชาวิทยาศาสตร์ ชั้นประถมศึกษาปีที่ 4

ข้อ	คำตอบ	ข้อ	คำตอบ
1	3	21	3
2	4	22	3
3	2	23	4
4	3	24	3
5	3	25	1
6	2	26	2
7	3	27	3
8	1	28	2
9	2	29	3
10	4	30	3
11	2	31	3
12	2	32	3
13	1	33	1
14	2	34	4
15	3	35	2
16	1	36	3
17	3	37	2
18	4	38	4
19	3	39	4
20	2	40	4

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